

## Compact, Airborne Multispecies Sensor, Phase I

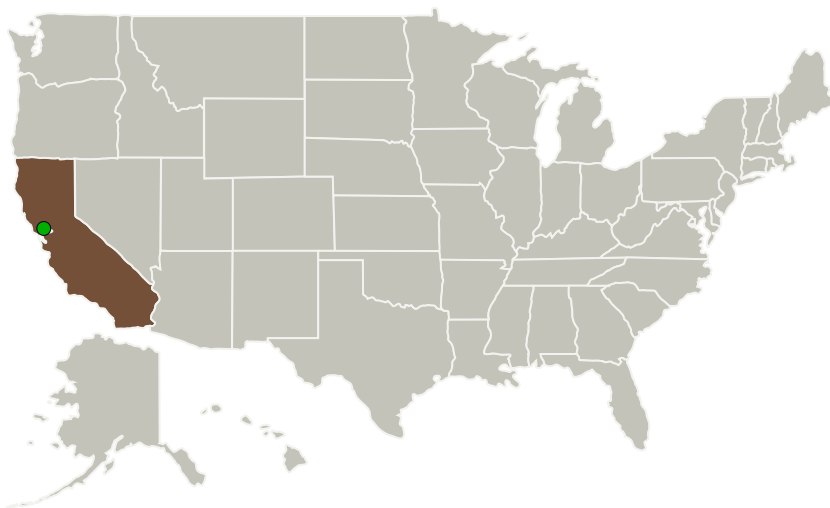
Completed Technology Project (2010 - 2010)



## Project Introduction

The Small Business Innovative Research Phase I proposal seeks to develop a compact mid-infrared laser spectrometer to benefit Earth science research activities. To capitalize on emerging aerial platforms, a miniaturized and ruggedized mid-infrared laser spectrometer using novel, fiber-coupled, solid state lasers will be designed to improve performance over traditional tunable diode laser systems requiring cryogenic cooling. It will measure priority gases specifically listed in the subtopic.

## Primary U.S. Work Locations and Key Partners



Compact, Airborne Multispecies Sensor, Phase I

## Table of Contents

Project Introduction	1
Primary U.S. Work Locations and Key Partners	1
Project Transitions	2
Organizational Responsibility	2
Project Management	2
Technology Maturity (TRL)	2
Technology Areas	3
Target Destinations	3

Organizations Performing Work	Role	Type	Location
Novawave Technologies	Lead Organization	Industry	Redwood City, California
● Ames Research Center(ARC)	Supporting Organization	NASA Center	Moffett Field, California

## Primary U.S. Work Locations


California

## Compact, Airborne Multispecies Sensor, Phase I

Completed Technology Project (2010 - 2010)



### Project Transitions

 **January 2010:** Project Start

 **September 2010:** Closed out

**Closeout Summary:** Compact, Airborne Multispecies Sensor, Phase I Project I  
mage

**Closeout Documentation:**

- Final Summary Chart Image(<https://techport.nasa.gov/file/138889>)

### Organizational Responsibility

**Responsible Mission Directorate:**

Space Technology Mission Directorate (STMD)

**Lead Organization:**

Novawave Technologies

**Responsible Program:**

Small Business Innovation Research/Small Business Tech Transfer

### Project Management

**Program Director:**

Jason L Kessler

**Program Manager:**

Carlos Torrez

**Principal Investigator:**

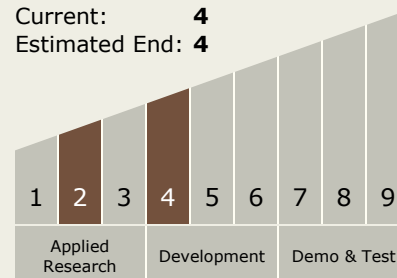
Hansjurg Jost

### Technology Maturity (TRL)

Start: 2

Current: 4

Estimated End: 4



## Compact, Airborne Multispecies Sensor, Phase I

Completed Technology Project (2010 - 2010)



### Technology Areas

#### Primary:

- TX08 Sensors and Instruments
  - └ TX08.1 Remote Sensing Instruments/Sensors
    - └ TX08.1.5 Lasers

### Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System